

# Alexei Grichine

## List of Publications by Year in descending order

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74  
papers

2,741  
citations

159585

30  
h-index

182427

51  
g-index

76  
all docs

76  
docs citations

76  
times ranked

4276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Lived Two-Photon Excited Luminescence of Water-Soluble Europium Complex: Applications in Biological Imaging Using Two-Photon Scanning Microscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 1532-1533.	13.7	285
2	Clustering and Internalization of Integrin $\alpha_3\beta_1$ With a Tetrameric RGD-synthetic Peptide. <i>Molecular Therapy</i> , 2009, 17, 837-843.	8.2	148
3	Heterotrimerization of Heat-Shock Factors 1 and 2 Provides a Transcriptional Switch in Response to Distinct Stimuli. <i>Molecular Biology of the Cell</i> , 2009, 20, 1340-1347.	2.1	139
4	Ytterbium-Based Bioprobes for Near-Infrared Two-Photon Scanning Laser Microscopy Imaging. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6622-6625.	13.8	127
5	Paxillin Phosphorylation Controls Invadopodia/Podosomes Spatiotemporal Organization. <i>Molecular Biology of the Cell</i> , 2008, 19, 633-645.	2.1	99
6	Terbium(III) Luminescent Complexes as Millisecond-Scale Viscosity Probes for Lifetime Imaging. <i>Journal of the American Chemical Society</i> , 2017, 139, 7693-7696.	13.7	97
7	Cell adaptive response to extracellular matrix density is controlled by ICAP-1-dependent $\alpha_1$ -integrin affinity. <i>Journal of Cell Biology</i> , 2008, 180, 427-441.	5.2	88
8	Millisecond lifetime imaging with a europium complex using a commercial confocal microscope under one or two-photon excitation. <i>Chemical Science</i> , 2014, 5, 3475-3485.	7.4	82
9	Regulation of respiration in muscle cells in vivo by VDAC through interaction with the cytoskeleton and MtCK within Mitochondrial Interactosome. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1545-1554.	2.6	80
10	Motor-driven marginal band coiling promotes cell shape change during platelet activation. <i>Journal of Cell Biology</i> , 2014, 204, 177-185.	5.2	77
11	Pyclen-Based Ln(III) Complexes as Highly Luminescent Bioprobes for <i>In Vitro</i> and <i>In Vivo</i> One- and Two-Photon Bioimaging Applications. <i>Journal of the American Chemical Society</i> , 2020, 142, 10184-10197.	13.7	68
12	Microvasculature on a chip: study of the Endothelial Surface Layer and the flow structure of Red Blood Cells. <i>Scientific Reports</i> , 2017, 7, 45036.	3.3	66
13	Lamellipodia nucleation by filopodia depends on integrin occupancy and downstream Rac1 signaling. <i>Experimental Cell Research</i> , 2008, 314, 478-488.	2.6	62
14	Data storage based on photochromic and photoconvertible fluorescent proteins. <i>Journal of Biotechnology</i> , 2010, 149, 289-298.	3.8	62
15	Near infrared two photon imaging using a bright cationic Yb bioprobes spontaneously internalized into live cells. <i>Chemical Communications</i> , 2017, 53, 6005-6008.	4.1	62
16	Epithelial Protein Lost In Neoplasm (EPLIN) Interacts with $\beta$ -Catenin and Actin Filaments in Endothelial Cells and Stabilizes Vascular Capillary Network in Vitro. <i>Journal of Biological Chemistry</i> , 2012, 287, 7556-7572.	3.4	61
17	Unexpected Efficiency of a Luminescent Samarium(III) Complex for Combined Visible and Near-Infrared Biphotonic Microscopy. <i>Chemistry - A European Journal</i> , 2015, 21, 17757-17761.	3.3	58
18	New insight into the Nox4 subcellular localization in HEK293 cells: First monoclonal antibodies against Nox4. <i>Biochimie</i> , 2011, 93, 457-468.	2.6	56

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19	Relative Contribution of C1q and Apoptotic Cell-Surface Calreticulin to Macrophage Phagocytosis. <i>Journal of Innate Immunity</i> , 2014, 6, 426-434.	3.8	50
20	Cationic Two-Photon Lanthanide Bioprobes Able to Accumulate in Live Cells. <i>Inorganic Chemistry</i> , 2016, 55, 7020-7025.	4.0	44
21	Near-infrared Photosensitizer Based on a Cycloimide Derivative of Chlorin p6: 13,15-N-(3-Hydroxypropyl)Cycloimide Chlorin p6. <i>Photochemistry and Photobiology</i> , 2002, 75, 633.	2.5	43
22	Modular organization of cardiac energy metabolism: energy conversion, transfer and feedback regulation. <i>Acta Physiologica</i> , 2015, 213, 84-106.	3.8	43
23	Keto-polymethines: a versatile class of dyes with outstanding spectroscopic properties for in cellulo and in vivo two-photon microscopy imaging. <i>Chemical Science</i> , 2017, 8, 381-394.	7.4	43
24	Role of mitochondria-cytoskeleton interactions in respiration regulation and mitochondrial organization in striated muscles. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 232-245.	1.0	41
25	Two-photon multiplexing bio-imaging using a combination of Eu- and Tb-bioprobes. <i>Dalton Transactions</i> , 2015, 44, 4918-4924.	3.3	38
26	Virosome-mediated delivery of tumor antigen to plasmacytoid dendritic cells. <i>Vaccine</i> , 2007, 25, 3913-3921.	3.8	36
27	In Vivo Noninvasive Optical Imaging of Receptor-Mediated RGD Internalization Using Self-Quenched Cy5-Labeled RAFT-c(-RGDfK) <sub>4</sub> . <i>Molecular Imaging</i> , 2007, 6, 7290.2007.00002.	1.4	35
28	A Multi-Heavy-Atom Approach toward Biphotonic Photosensitizers with Improved Singlet Oxygen Generation Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 9026-9034.	3.3	34
29	1q12 chromosome translocations form aberrant heterochromatic foci associated with changes in nuclear architecture and gene expression in B cell lymphoma. <i>EMBO Molecular Medicine</i> , 2010, 2, 159-171.	6.9	33
30	Studies of the role of tubulin beta II isotype in regulation of mitochondrial respiration in intracellular energetic units in cardiac cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 437-447.	1.9	33
31	Unexpected function of the phagocyte NADPH oxidase in supporting hyperglycolysis in stimulated neutrophils: key role of 6-phosphofructo-2-kinase. <i>FASEB Journal</i> , 2017, 31, 663-673.	0.5	32
32	Twisted Charge-Transfer Antennae for Ultra-Bright Terbium(III) and Dysprosium(III) Bioprobes. <i>Chemistry - A European Journal</i> , 2018, 24, 3408-3412.	3.3	32
33	Combining a pyren framework with conjugated antenna for the design of europium and samarium luminescent bioprobes. <i>Chemical Communications</i> , 2018, 54, 6173-6176.	4.1	31
34	Breakdown of cell-collagen networks through collagen remodeling. <i>Biorheology</i> , 2010, 47, 277-295.	0.4	30
35	Cell Entry and Trafficking of Human Adenovirus Bound to Blood Factor X Is Determined by the Fiber Serotype and Not Hexon:Heparan Sulfate Interaction. <i>PLoS ONE</i> , 2011, 6, e18205.	2.5	29
36	Comparative Study of Photodynamic Properties of 13,15-N-cycloimide Derivatives of Chlorin p6. <i>Photochemistry and Photobiology</i> , 2004, 79, 172.	2.5	29

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37	Essential Function of Dynamin in the Invasive Properties and Actin Architecture of v-Src Induced Podosomes/Invadosomes. PLoS ONE, 2013, 8, e77956.	2.5	24
38	Influence of the Substitution of 3-Vinyl by 3-Formyl Group on the Photodynamic Properties of Chlorin P6: Molecular, Cellular and In vivo Studies. Photochemistry and Photobiology, 2001, 73, 267.	2.5	23
39	New insights into the membrane topology of the phagocyte NADPH oxidase: Characterization of an anti-gp91-phox conformational monoclonal antibody. Biochimie, 2007, 89, 1145-1158.	2.6	23
40	Design and synthesis of europium luminescent bio-probes featuring sulfobetaine moieties. Tetrahedron Letters, 2014, 55, 1357-1361.	1.4	21
41	Chelation with Metal is not Essential for Antitumor Photodynamic Activity of Sulfonated Phthalocyanines. Photochemistry and Photobiology, 2002, 75, 527.	2.5	19
42	The impact of cardiac ischemia/reperfusion on the mitochondria-cytoskeleton interactions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1159-1171.	3.8	18
43	Fluorescent carbohydrate probes for cell lectins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2285-2296.	3.9	17
44	New p22-Phox Monoclonal Antibodies: Identification of a Conformational Probe for Cytochrome b558. Journal of Innate Immunity, 2009, 1, 556-569.	3.8	17
45	Cell-permeant cytoplasmic blue fluorophores optimized for in vivo two-photon microscopy with low-power excitation. Microscopy Research and Technique, 2007, 70, 880-885.	2.2	15
46	Photobiological Properties of 13,15-N-(Carboxymethyl)- and 13,15-N-(2-Carboxyethyl)cycloimide Derivatives of Chlorin p6. Russian Journal of Bioorganic Chemistry, 2004, 30, 374-384.	1.0	14
47	Coupling of 6-phosphogluconate dehydrogenase with NADPH oxidase in neutrophils: Nox2 activity regulation by NADPH availability. FASEB Journal, 2011, 25, 2333-2343.	0.5	14
48	Cationic Biphotonic Lanthanide Luminescent Bioprobes Based on Functionalized Cross-Bridged Cyclam Macrocycles. ChemPhysChem, 2020, 21, 1036-1043.	2.1	13
49	Direction of epithelial folding defines impact of mechanical forces on epithelial state. Developmental Cell, 2021, 56, 3222-3234.e6.	7.0	13
50	Matters of the heart in bioenergetics: mitochondrial fusion into continuous reticulum is not needed for maximal respiratory activity. Journal of Bioenergetics and Biomembranes, 2013, 45, 319-331.	2.3	12
51	In Vitro Dermal Safety Assessment of Silver Nanowires after Acute Exposure: Tissue vs. Cell Models. Nanomaterials, 2018, 8, 232.	4.1	12
52	Polyanionic Polydentate Europium Complexes as Ultrabright One- or Two-photon Bioprobes. ChemPhysChem, 2018, 19, 3318-3324.	2.1	11
53	New insights into the organisation and intracellular localisation of the two subunits of glucose-6-phosphatase. Biochimie, 2012, 94, 695-703.	2.6	10
54	Correction of cell-induced optical aberrations in a fluorescence fluctuation microscope. Optics Letters, 2013, 38, 2401.	3.3	9

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55	Genetically Encoded Fluorescent Biosensors to Explore AMPK Signaling and Energy Metabolism. Exs, 2016, 107, 491-523.	1.4	9
56	Improving Surgical Resection of Metastatic Liver Tumors With Near-Infrared Optical-Guided Fluorescence Imaging. Surgical Innovation, 2016, 23, 354-359.	0.9	9
57	Distribution of metal-free sulfonated phthalocyanine in subcutaneously transplanted murine tumors. Journal of Photochemistry and Photobiology B: Biology, 2004, 75, 81-87.	3.8	8
58	Compartmentation of ATP in Cardiomyocytes and Mitochondria Kinetic Studies and Direct Measurements. Biophysical Journal, 2009, 96, 241a.	0.5	7
59	Control of SRC molecular dynamics encodes distinct cytoskeletal responses by specifying signaling pathway usage. Journal of Cell Science, 2021, 134, .	2.0	7
60	NIR-to-NIR two-photon bio-imaging using very bright tailored amino-heptamethines dyes. Dyes and Pigments, 2022, 203, 110369.	3.7	6
61	Wavelet transform analysis of chromatin texture changes during heat shock. Journal of Microscopy, 2016, 262, 295-305.	1.8	4
62	Comparative Study of Photodynamic Properties of 13, 15 <i>N</i> -cycloimide Derivatives of chlorin p6 <sup>+</sup> . Photochemistry and Photobiology, 2004, 79, 172-188.	2.5	2
63	Influence of the Substitution of 3-Vinyl by 3-Formyl Group on the Photodynamic Properties of Chlorin P6: Molecular, Cellular and In vivo Studies. Photochemistry and Photobiology, 2007, 73, 267-277.	2.5	2
64	Chelation with Metal is not Essential for Antitumor Photodynamic Activity of Sulfonated Phthalocyanines. Photochemistry and Photobiology, 2007, 75, 527-533.	2.5	2
65	Reply to: Comments on "Intraoperative near-infrared fluorescence imaging using indocyanine green in colorectal carcinomatosis surgery: Proof of concept". European Journal of Surgical Oncology, 2017, 43, 242-243.	1.0	2
66	Characterization of the autofluorescence of normal and tumoral esophageal epithelium cells. , 2003, , .		0
67	Near-infrared Photosensitizer Based on a Cycloimide Derivative of Chlorin p6: 13,15-N-(3-Hydroxypropyl)Cycloimide Chlorin p6. Photochemistry and Photobiology, 2007, 75, 633-643.	2.5	0
68	Novel Method for Investigation of Interactions between Mitochondrial Creatine Kinase and Adenine Nucleotide Translocase. Biophysical Journal, 2010, 98, 735a.	0.5	0
69	Dynamics of Mitochondria in Adult Rat Cardiomyocytes. Biophysical Journal, 2012, 102, 47a.	0.5	0
70	Quantitative Study of Tubulin Distribution and Mitochondrial Dynamics in Skeletal Muscle Cells. Biophysical Journal, 2012, 102, 697a.	0.5	0
71	Unpolymerized $\beta$ II Tubulin in Regulation of Mitochondrial Function in Muscle Cells. Biophysical Journal, 2013, 104, 302a.	0.5	0
72	Regulation of Respiration in Permeabilized Muscle Cells: Apparent KM for ADP Shows the Mitochondrial Outer Membrane Permeability. Biophysical Journal, 2013, 104, 447a-448a.	0.5	0

#	ARTICLE	IF	CITATIONS
73	Live imaging of single platelets at work. <i>Platelets</i> , 2020, 31, 551-558.	2.3	0
74	Cell fluorescence photo-activation as a method to select and study cellular sub populations grown in mechanically heterogeneous environments. <i>Molecular Biology of the Cell</i> , 2021, 32, mbc.E20-10-0676.	2.1	0